# 特許協力条約

PCT

特許性に関する国際予備報告(特許協力条約第二章)

(法第 12 条、法施行規則第 56 条) [PCT36 条及びPCT規則 70]

出願人又は代理人 の書類記号 04R00130	今後の手続きについては、様式PCT/IPEA/416を参照すること。		
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国際特許分類(I P C)Int.Cl. <sup>7</sup> G09G3/36,G02F1/133			
出願人(氏名又は名称) シャープ株式会社			

1. この報告書は、PCT35条に基づきこの国際予備審査機関で作成された国際予備審査報告である。 法施行規則第57条 (PCT36条) の規定に従い送付する。 2. この国際予備審査報告は、この表紙を含めて全部で 3 ページからなる。 3. この報告には次の附属物件も添付されている。 a.	
3. この報告には次の附属物件も添付されている。 a.	
a. V 附属書類は全部で 12 ページである。  V 補正されて、この報告の基礎とされた及び/又はこの国際予備審査機関が認めた訂正を含む明細書、請求の範囲及び/又は図面の用紙 (PCT規則 70.16 及び実施細則第 607 号参照)  「第1欄4. 及び補充欄に示したように、出願時における国際出願の開示の範囲を超えた補正を含むものとこの国際予備審査機関が認定した差替え用紙  b. 「電子媒体は全部で (電子媒体の種類、数を示す)。配列表に関する補充欄に示すように、コンピュータ読み取り可能な形式による配列表又は配列表に関連するテーブルを含む。(実施細則第 802 号参照)  4. この国際予備審査報告は、次の内容を含む。  「第1欄 医先権」 第1間	2. この国際予備審査報告は、この表紙を含めて全部で3 ページからなる。
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<ul> <li>▼ 第 I 欄 国際予備審査報告の基礎</li> <li>「 第 II 欄 優先権</li> <li>「 第 II 欄 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成</li> <li>「 第 IV 欄 発明の単一性の欠如</li> <li>「 第 V 欄 P C T 35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明</li> <li>「 第 VI 欄 ある種の引用文献</li> <li>「 第 VI 欄 国際出願の不備</li> </ul>	配列表に関する補充欄に示すように、コンピュータ読み取り可能な形式による配列表又は配列表に関連するテー
<ul> <li>第Ⅱ欄 優先権</li> <li>第Ⅲ欄 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成</li> <li>第Ⅳ欄 発明の単一性の欠如</li> <li>第Ⅴ欄 PCT35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明</li> <li>第Ⅵ欄 ある種の引用文献</li> <li>第Ⅵ欄 国際出願の不備</li> </ul>	4. この国際予備審査報告は、次の内容を含む。
<ul> <li>▼ 第Ⅲ欄 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成</li> <li>「 第Ⅳ欄 発明の単一性の欠如</li> <li>「 第V欄 PCT35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明</li> <li>「 第Ⅵ欄 ある種の引用文献</li> <li>「 第Ⅵ欄 国際出願の不備</li> </ul>	▼ 第1欄 国際予備審査報告の基礎
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「第1回欄」国際出願に対する意見	デー 第VII欄 国際出願の不備
	「第1回欄」国際出願に対する意見

国際予備審査の請求書を受理した日 10.12.2004	国際予備審査報告を作成した日 28.06.2005			
名称及びあて先	特許庁審査官(権限のある職員)	2 G	9308	
日本国特許庁(I PE A/JP)	西島 篤宏	<u> </u>		
郵便番号100-8915				
東京都千代田区霞が関三丁目4番3号	電話番号 03-3581-1101	内線 32	2 6	

第Ⅰ根	報報	告の基礎			
1. ت	の国際	祭予備審査報告は、	下記に示す場合を除くほか	、国際出願の言語を基礎	きとした。
	それ <b>「</b>	には、次の目的で提出 PCT規則12.3及び PCT規則12.4にい	語による翻訳文を dされた翻訳文の言語であ 23.1(b)にいう国際調査 う国際公開 55.3にいう国際予備審査		
2. こ	の報告	<b>告は下記の出願書類</b>			基づく命令に応答するために提出され )
Г	- 出	願時の国際出願書類			
V	明	細書			
, ,			ページ、	出願時に提出されたもの	
	第		ページ*		付けで国際予備審査機関が受理したもの 付けで国際予備審査機関が受理したもの
	第	-	ページ <b>*</b>	·	付けで国際予備審査機関が受理したもの
Į.	請	求の範囲		•	
				出願時に提出されたもの	מ
	第			、PCT19条の規定に基	<b>甚づき補正されたもの</b>
	第	1-2, 7-9, 11-14, 17-	19,21-24 項*	10. 12. 2004	付けで国際予備審査機関が受理したもの 付けで国際予備審査機関が受理したもの
	第				付けで国際予備番金機関が受理したもの
г	<b>·</b> 図	耐			
•			ページ <del>/図</del> 、	出願時に提出されたもの	D
	第	<u> </u>	ページ/図*.	HAN TIEM CATTOO	付けで国際予備審査機関が受理したもの
	第		ページ/図*		付けで国際予備審査機関が受理したもの 付けで国際予備審査機関が受理したもの
Г	_	列表又は関連するテ			
		配列表に関する補	充欄を参照すること。		
****					·
3. 🔽	補工	Eにより、下記の書類	質が削除された。		
	Г	明細書	第		ページ
	F	請求の範囲	第 3-6, 10, 15-16, 20		項
		図面			ページ/図
		配列表(具体的に			
	1	配列表に関連する	テーブル(具体的に記載す	- ること)	
4. T					た補正が出願時における開示の範囲を超
	えて	てされたものと認めら	られるので、その補正がさ	れなかったものとして作	成した。 (PCT規則 70.2(c))
	Г	明細書	第		ページ
	Г	請求の範囲	第		<b></b>
	Г	図面	第		ページ/図
	ŗ	配列表(具体的に記述)に			
	Γ	配列表に関連する	テーブル(具体的に記載す	-ること)	
					·
<b>*</b> 1	とうまない	ムナス退会 その田笠	紙に "superseded" と記ノ	さわストレがなス	
4.	1~10人 =	1 -2-20日、 -C の用i	>vr⊂ puberpeded ⊂ UL/	400 - C 11-01 Wo	

第Ⅱ	【欄 新規性、	進歩性又は産業上の利用可能性についての見解の不作成	
	次に関して、 審査しない。	当該請求の範囲に記載されている発明の新規性、進歩性	又は産業上の利用可能性につき、次の理由により
Γ	国際出願金	全体	•
V	請求の範囲	用 1-2, 7-9, 11-14, 17-19, 21-24	
理由	1:		
Γ	この国際出席	質又は請求の範囲 内容としている(具体的に記載すること)。	は、国際予備審査をすることを要しない
		•	
Г	明細書、請求	Rの範囲若しくは図面(次に示す部分)又は請求の範囲 _	
	記載が、不明	月確であるため、見解を示すことができない(具体的に記	載すること)。
J			
			•
Г	全部の請求の	9範囲又は請求の範囲	が、明細書による十分な
•		、 くため、見解を示すことができない。	
ᅜ	請求の範囲_	1-2, 7-9, 11-14, 17-19, 21-24	ついて、国際調査報告が作成されていない。
Γ		ド又はアミノ酸の配列表が、実施細則の附属書 C (塩基配イン) に定める基準を、次の点で満たしていない。	2列又はアミノ酸配列を含む明細書等の作成のため
	書面による	***************************************	されていない。
	コンピュー	- 夕読み取り可能な形式による配列表が	の基準を満たしていない。 されていない。
			の基準を満たしていない。
Γ		タ読み取り可能な形式によるヌクレオチド又はアミノ酸の める技術的な要件を、次の点で満たしていない。	)配列表に関連するテーブルが、実施細則の附属書
		されていない。 D技術的な要件を満たしていない。	
Г	詳細について	ては補充欄を参照すること。	
•			
			•

# - 100 - JC20 Rec'd PCT/PTO 23 SEP 2005

#### CLAIMS

1. (amended) A liquid crystal television receiver which corrects optical response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

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the liquid crystal television receiver being capable of reproducing images based on image data of more than one broadcasting standard,

the liquid crystal television receiver comprising:

signal type detection means for detecting whether input image data is a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;

enhancing conversion means for subjecting the input

20 image data to enhancing conversion in a direction of gray
level transition;

temperature detection means for detecting a temperature in the liquid crystal television receiver; and

table memories that store enhancing conversion 25 parameters that correspond to respective temperatures in the

liquid crystal television receiver and are specified by the image data of the current vertical period and the image data of the directly previous vertical period,

the enhancing conversion means including an operation section that performs, using the enhancing conversion parameter read out from the table memories, an operation on the image data so as to enhance the image data, in accordance with a result of comparison between (i) a switching temperature determined by the result of the detection by the signal type detection means and (ii) the result of the detection by the temperature detection means.

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2. (amended) A liquid crystal television receiver which corrects optical response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

the liquid crystal television receiver being capable of reproducing images based on image data of more than one broadcasting standard,

the liquid crystal television receiver comprising:

signal type detection means for detecting whether input image data is a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;

enhancing conversion means for subjecting the input image data to enhancing conversion in a direction of gray level transition;

temperature detection means for detecting a temperature in the liquid crystal television receiver; and

table memories that store enhancing conversion

10 parameters that correspond to respective temperatures in the
liquid crystal television receiver and are specified by the
image data of the current vertical period and the image data
of the directly previous vertical period,

at least one of the table memories being referable regardless of the signal type, and

the enhancing conversion means subjecting the image data to the enhancing conversion, using the enhancing conversion parameter read out from one of the table memories that is selected and referred to in accordance with the result of detection by the signal type detection means and the result of detection by the temperature detection means.

- 3. (cancelled)
- 25 4. (cancelled)

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5 (cancelled)

## 6. (cancelled)

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7. (amended) A liquid crystal television receiver which corrects optical response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

the liquid crystal television receiver being capable of reproducing images based on image data of more than one broadcasting standard,

the liquid crystal television receiver comprising:

signal type detection means for detecting whether input image data is a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;

enhancing conversion means for subjecting the input image data to enhancing conversion in a direction of gray level transition;

temperature detection means for detecting a temperature

in the liquid crystal television receiver; and

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a table memory that stores an enhancing conversion parameter specified by image data of a current vertical period and image data of a directly previous vertical period,

the enhancing conversion means including:

an operation section that performs an operation on the image data so as to enhance the image data, using the enhancing conversion parameter; and

a multiplying section that multiplies output data of the operation section by a coefficient corresponding to the result of detection by the signal type detection means and the result of detection by the temperature detection means.

8. (amended) A liquid crystal television receiver which corrects optical response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

the liquid crystal television receiver being capable of reproducing images based on image data of more than one broadcasting standard,

the liquid crystal television receiver comprising:

signal type detection means for detecting whether input 25 image data is a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;

enhancing conversion means for subjecting the input image data to enhancing conversion in a direction of gray level transition;

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temperature detection means for detecting a temperature in the liquid crystal television receiver;

a first table memory that stores an enhancing conversion parameter specified by the image data of the current vertical period and the image data of the directly previous vertical period, the first table memory being referred to when the input image data is the video signal of the first broadcasting standard; and

a second table memory that stores an enhancing conversion parameter specified by the image data of the current vertical period and the image data of the directly previous vertical period, the second table memory being referred to when the input image data is the video signal of the second broadcasting standard,

the enhancing conversion means including:

an operation section that performs, using the enhancing conversion parameter read out from the first or second table memory in accordance with the result of the detection by the signal type detection means, an operation on the image data so as to enhance the image data; and

a multiplying section that multiplies output data of the operation section by a coefficient corresponding to the result of detection by the temperature detection means.

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9. (amended) A liquid crystal television receiver which corrects optical response characteristics of a liquid crystal panel by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

the liquid crystal television receiver being capable of reproducing images based on image data of more than one broadcasting standard,

the liquid crystal television receiver comprising:

signal type detection means for detecting whether input image data is a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;

enhancing conversion means for subjecting the input image data to enhancing conversion in a direction of gray level transition;

temperature detection means for detecting a temperature in the liquid crystal television receiver;

first table memories that store enhancing conversion parameters that correspond to respective temperatures in the liquid crystal television receiver and are specified by the image data of the current vertical period and the image data of the directly previous vertical period, the first table memories being referred to when the input image data is the video signal of the first broadcasting standard; and

second table memories that store enhancing conversion parameters that correspond to respective temperatures in the liquid crystal television receiver and are specified by the image data of the current vertical period and the image data of the directly previous vertical period, the second table memories being referred to when the input image data is the video signal of the second broadcasting standard,

the enhancing conversion means including an operation section that performs, using the enhancing conversion parameter read out from one of the first and second table memories in accordance with the result of the detection by the signal type detection means and the result of the detection by the temperature detection means, an operation on the image data so as to enhance the image data.

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11. (amended) The liquid crystal television receiver as defined in claim 1 or 2, further comprising control means that controls switching and selection of the enhancing conversion parameters,

the control means including:

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an operation section that performs, on temperature data detected by the temperature detection means, a predetermined operation corresponding to each signal type of the input image data;

a threshold discriminating section that compares the temperature data, which has been subjected to the operation by the operation section, with predetermined threshold temperature data; and

a control signal output section that generates a switching control signal with which the enhancing conversion parameters are switched and controlled, in accordance with a result of comparison by the threshold discriminating section.

20 12. (amended) The liquid crystal television receiver as defined in claim 1 or 2, further comprising control means that controls switching and selection of the enhancing conversion parameters,

the control means including:

a threshold discriminating section that compares

temperature data, which is detected by the temperature detection means, with predetermined threshold temperature data; and

a control signal output section that generates a switching control signal with which the enhancing conversion parameters are switched and controlled, in accordance with a result of comparison by the threshold discriminating section.

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13. (amended) A liquid crystal display control method for correcting optical response characteristics of a liquid crystal display panel, by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more than one broadcasting standard,

the method comprising the steps of:

- (i) detecting whether a signal type of input image data is 20 a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;
  - (ii) subjecting the image data to the enhancing

conversion in a direction of gray level transition;

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- (iii) detecting a temperature in an apparatus;
- (iv) referring to table memories that store enhancing conversion parameters that correspond to respective temperatures in the apparatus and are specified by the image data of the current vertical period and the image data of the directly previous vertical period; and
- (v) in accordance with a comparison between a switching temperature determined by the signal type detected in the step (i) and the temperature detected in the step (iii), performing an operation on the image data so as to enhance the image data, using the enhancing conversion parameter read out from one of the table memories.
- 14. (amended) A liquid crystal display control method for correcting optical response characteristics of a liquid crystal display panel, by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more than one broadcasting standard,

the method comprising the steps of:

(i) detecting whether a signal type of input image data is

a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;

- (ii) subjecting the image data to the enhancing conversion in a direction of gray level transition; and
  - (iii) detecting a temperature in an apparatus,

in the step (ii), the image data being subjected to the enhancing conversion, using an enhancing conversion parameter read out from one of table memories that is selected and referred to in accordance with the result of detection in the step (i) and the result of detection in the step (iii), the table memories storing enhancing conversion parameters that correspond to respective temperatures in the apparatus and are specified by the image data of the current vertical period and the image data of the directly previous vertical period, and at least one of the table memories being referable regardless of the signal type.

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- 15. (cancelled)
- 16. (cancelled)
- 17. (amended) A liquid crystal display control method for

correcting optical response characteristics of a liquid crystal display panel, by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more than one broadcasting standard.

the method comprising the steps of:

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- (i) detecting whether a signal type of input image data is a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;
  - (ii) subjecting the image data to the enhancing conversion in a direction of gray level transition;
    - (iii) detecting a temperature in an apparatus;
- (iv) referring to a table memory that stores an enhancing 20 conversion parameter specified by the image data of the directly previous vertical period and the image data of the current vertical period;
  - (v) performing an operation on the image data so as to enhance the image data, using the enhancing conversion parameter; and

- (vi) multiplying output data as a result of the step (v) by a coefficient corresponding to the signal type detected in the step (i) and the temperature detected in the step (iii).
- 18. (amended) A liquid crystal display control method for correcting optical response characteristics of a liquid crystal display panel, by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more than one broadcasting standard.

the method comprising the steps of:

- (i) detecting whether a signal type of input image data is a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;
  - (ii) subjecting the image data to the enhancing conversion in a direction of gray level transition;
    - (iii) detecting a temperature in an apparatus;
- (iv) referring to first table memory that stores an 25 enhancing conversion parameter specified by the image data

of the current vertical period and the image data of the directly previous vertical period, the first table memory being referred to in a case where the input image data is the video signal of the first broadcasting standard;

(v) referring to second table memory that stores an enhancing conversion parameter specified by the image data of the current vertical period and the image data of the directly previous vertical period, the second table memory being referred to in a case where the input image data is the video signal of the second broadcasting standard;

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- (vi) in accordance with the signal type detected in the step (i), performing an operation on the image data so as to enhance the image data, using the enhancing conversion parameter read out from the first or second table memory; and
- (vii) multiplying output data as a result of the step (vi) by a coefficient corresponding to each temperature detected in the step (iii).
- 19 (amended) A liquid crystal display control method for correcting optical response characteristics of a liquid crystal display panel, by subjecting image data supplied to the liquid crystal display panel to enhancing conversion at least in accordance with image data of a directly previous vertical period and image data of a current vertical period,

the liquid crystal panel being capable of reproducing images based on image data of more than one broadcasting standard,

the method comprising the steps of:

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- (i) detecting whether a signal type of input image data is a video signal of a first broadcasting standard or a video signal of a second broadcasting standard, the video signal of the first broadcasting standard being different, in terms of a vertical frequency, from the video signal of the second broadcasting standard;
  - (ii) subjecting the image data to the enhancing conversion in a direction of gray level transition;
    - (iii) detecting a temperature in an apparatus;
- (iv) referring to first table memories that store enhancing

  conversion parameters that correspond to respective temperatures in the apparatus and are specified by the image data of the current vertical period and the image data of the directly previous vertical period, the first table memories being referred to in a case where the input image data is the video signal of the first broadcasting standard;
  - (v) referring to second table memories that store enhancing conversion parameters that correspond to respective temperatures in the apparatus and are specified by the image data of the current vertical period and the image data of the directly previous vertical period, the second table

memories being referred to in a case where the input image data is the video signal of the second broadcasting standard; and

(vi) in accordance with the signal type detected in the step (i) and the temperature detected in the step (iii), performing an operation on the image data so as to enhance the image data, using the enhancing conversion parameter read out from one of the first and second table memories.

## 10 20. (cancelled)

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- 21. (amended) The method as defined in claim 13 or 14, further comprising the steps of:
- (vi) performing, on temperature data corresponding to 15 the temperature detected in the step (iii), a predetermined operation corresponding to each signal type of the input image data;
  - (vii) comparing the temperature after being subjected to the predetermined operation with predetermined threshold temperature data; and
  - (viii) in accordance with the comparison in the step (vii), generating a switching control signal for switching and controlling the enhancing conversion parameters.
    - 22. (amended) The method as defined in claim 13 or 14,

further comprising the steps of:

- (vi) comparing temperature data corresponding to the temperature detected in the step (iii) with predetermined threshold temperature data corresponding to each signal type of the input image data; and
- (vii) in accordance with the comparison in the step (vi), generating a switching control signal for switching and controlling the enhancing conversion parameters.
- 23. (amended) A program for a computer that controls a liquid crystal television receiver capable of reproducing images based on image data of more than one broadcasting standards, the liquid crystal television receiver correcting optical response characteristics of a liquid crystal display panel by performing an enhancing conversion of image data supplied to the liquid crystal display panel, in accordance with image data of a directly previous vertical period and image data of a current vertical period, in such a manner as to causing the liquid crystal panel to have a transmittance specified by the image data, within a predetermined period of time,

the program causing the computer to perform the steps defined in claim 13, 14, 17, 18, or 19.

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for a computer that controls a liquid crystal television receiver capable of reproducing images based on image data of more than one broadcasting standards, the liquid crystal television receiver correcting optical response characteristics of a liquid crystal display panel by performing an enhancing conversion of image data supplied to the liquid crystal display panel, in accordance with image data of a directly previous vertical period and image data of a current vertical period, in such a manner as to causing the liquid crystal panel to have a transmittance specified by the image data, within a predetermined period of time,

the program causing the computer to perform the steps defined in claim 13, 14, 17, 18, or 19.